

Title (en)  
SPATIAL RELATIONSHIPS FOR INTEGRATION OF VISUAL IMAGES OF PHYSICAL ENVIRONMENT INTO VIRTUAL REALITY

Title (de)  
RÄUMLICHE BEZIEHUNGEN ZUR INTEGRATION VON VISUELLEN BILDERN DER PHYSISCHEN UMGEBUNG IN DIE VIRTUELLE REALITÄT

Title (fr)  
RELATIONS SPATIALES POUR L'INTÉGRATION D'IMAGES VISUELLES D'ENVIRONNEMENT PHYSIQUE DANS LA RÉALITÉ VIRTUELLE

Publication  
**EP 3855288 C0 20240117 (EN)**

Application  
**EP 20207532 A 20170123**

Priority

- US 201615080363 A 20160324
- EP 17704872 A 20170123
- US 2017014554 W 20170123

Abstract (en)  
[origin: US2017278304A1] A method for use with a head-mounted display in a physical environment includes obtaining depth information of the physical environment and capturing a visual image of the physical environment. The method also includes determining a spatial relationship between a user of the head-mounted display and one or more physical objects included in the physical environment based on the depth information. The visual image is then segmented based on the spatial relationship to generate a segmented image that includes the one or more physical objects. The segmented image is then overlaid on a virtual image to display both the virtual image and the one or more physical objects on the head-mounted display.

IPC 8 full level  
**G06F 3/01** (2006.01); **G06F 3/0481** (2022.01); **G06F 3/04815** (2022.01); **G06F 3/0484** (2022.01); **G06T 19/00** (2011.01)

CPC (source: CN EP KR US)  
**G02B 27/0172** (2013.01 - KR US); **G06F 3/005** (2013.01 - KR); **G06F 3/011** (2013.01 - CN EP US); **G06F 3/012** (2013.01 - EP KR US); **G06F 3/017** (2013.01 - EP KR US); **G06F 3/04815** (2013.01 - EP KR US); **G06F 3/04817** (2013.01 - CN); **G06F 3/0484** (2013.01 - EP KR US); **G06T 19/006** (2013.01 - CN EP KR US); **G02B 2027/0138** (2013.01 - KR US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**US 10665019 B2 20200526**; **US 2017278304 A1 20170928**; BR 112018069351 A2 20190122; CA 3015508 A1 20170928; CN 108780357 A 20181109; CN 108780357 B 20211123; CN 114138118 A 20220304; CN 114138118 B 20240507; EP 3433704 A2 20190130; EP 3433704 B1 20201223; EP 3855288 A1 20210728; EP 3855288 B1 20240117; EP 3855288 C0 20240117; EP 4332742 A2 20240306; EP 4332742 A3 20240522; JP 2019514101 A 20190530; KR 20180122637 A 20181113; TW 201737024 A 20171016; WO 2017164971 A2 20170928; WO 2017164971 A3 20171102

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